

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P745740

Luminaire Tested: LD4D30D010-EU4DR1515309024-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D30D010-EU4DR1515309024-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2608.1 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 29
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

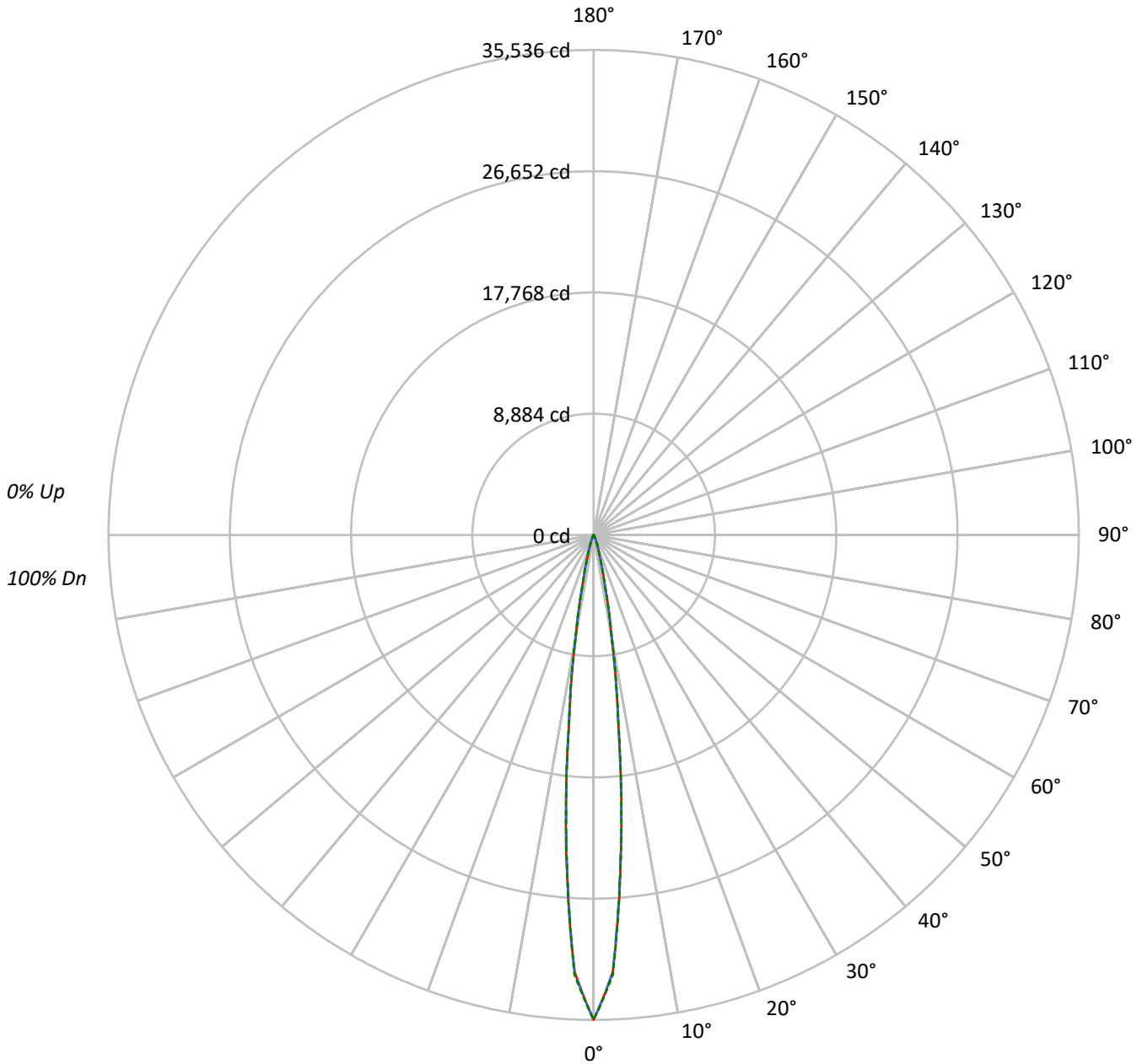


Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3998486	3998486	3998486
5°	2349701	2319273	2337627
10°	701272	706189	716994
15°	174435	177831	172341
20°	52187	60434	53299
25°	18400	23440	18634
30°	6762	8896	6874
35°	3384	3827	3275
40°	2138	2351	2138
45°	1582	1687	1582
50°	1259	1259	1259
55°	1044	1044	1044
60°	843	843	843
65°	642	642	642
70°	549	549	549
75°	340	340	454
80°	236	236	236
85°	125	125	125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1687 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1691.6	64.9
10°-20°	695.8	26.7
20°-30°	138.2	5.3
30°-40°	34.5	1.3
40°-50°	18.2	0.7
50°-60°	13.4	0.5
60°-70°	9.5	0.4
70°-80°	5.4	0.2
80°-90°	1.6	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2525.6	96.8
0°-40°	2560.1	98.2
0°-60°	2591.6	99.4
0°-90°	2608.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2608.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	35536	35536	35536	35536	35536	
5°	23120	22883	22821	22979	23002	1688
15°	2008	2046	2047	2011	1984	689
25°	236	268	301	266	239	124
35°	47	50	53	50	45	32
45°	23	23	24	23	23	18
55°	15	15	15	15	15	13
65°	9	9	9	9	9	9
75°	4	4	4	4	6	5
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	35535.8	35535.8	35535.8	35535.8	35535.8
2.5°	32054.8	32081.8	32092.4	32124.0	32241.3
5°	23120.4	22882.7	22821.0	22979.0	23001.6
7.5°	13695.6	13743.8	13919.8	13958.9	13817.5
10°	7515.7	7577.4	7568.4	7622.6	7684.2
12.5°	3843.6	3795.5	3780.4	3842.1	3756.4
15°	2008.3	2045.9	2047.4	2011.3	1984.2
17.5°	1080.1	1123.8	1196.0	1137.3	1047.0
20°	637.8	677.0	738.6	690.5	651.4
22.5°	394.1	425.7	469.4	431.7	400.2
25°	236.2	267.8	300.9	266.3	239.2
27.5°	139.9	167.0	188.0	165.5	138.4
30°	90.3	105.3	118.8	103.8	91.8
32.5°	63.2	69.2	75.2	69.2	63.2
35°	46.6	49.6	52.7	49.6	45.1
37.5°	36.1	39.1	40.6	37.6	34.6
40°	30.1	31.6	33.1	31.6	30.1
42.5°	25.6	27.1	27.1	27.1	25.6
45°	22.6	22.6	24.1	22.6	22.6
47.5°	19.6	19.6	21.1	19.6	19.6
50°	18.1	18.1	18.1	18.1	18.1
52.5°	16.5	16.5	16.5	16.5	16.5
55°	15.0	15.0	15.0	15.0	15.0
57.5°	13.5	13.5	13.5	13.5	13.5
60°	12.0	12.0	12.0	12.0	12.0
62.5°	10.5	10.5	10.5	10.5	10.5
65°	9.0	9.0	9.0	9.0	9.0
67.5°	9.0	9.0	9.0	9.0	9.0
70°	7.5	7.5	7.5	7.5	7.5
72.5°	6.0	6.0	6.0	6.0	6.0
75°	4.5	4.5	4.5	4.5	6.0
77.5°	4.5	4.5	4.5	4.5	4.5
80°	3.0	3.0	3.0	3.0	3.0
82.5°	3.0	3.0	3.0	3.0	3.0
85°	1.5	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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